

## PREVIEW AND POSTVIEW THUMBNAILS

### FIELD OF THE INVENTION

- 5 [0001] This invention relates in general to multiple page displays and, more particularly, to a multiple page display with ordered pages of various sizes.

### BACKGROUND OF THE INVENTION

- 10 [0002] Typically, pages of a document or presentation are created with the expectation they will be displayed one at a time, either on printed media or a display screen. Content presented on each page is sized so that it will be decipherable and convey information.

- 15 [0003] In some instances, it is desirable to display more than one page on a single display. For example, during a presentation where pages are displayed to observers, providing an indication to the presenter of the contents of preceding and following pages could help the presenter better deliver the presentation.

- 20 [0004] Conventionally, displaying multiple pages on a single display requires each page be displayed at the same scale. Many software applications allow a user to display multiple pages simultaneously at a reduced scale. Displaying the pages at a scale smaller than the scale in which they were intended reduces the decipherability of the pages and reduces the amount of information conveyed to the observer.

- 25 [0005] Despite the reduction in conveyed information, displaying pages at a reduced scale is often useful. For example, reducing the scale of the pages allows multiple pages to be presented together on a single display. Pages are frequently scaled to a small size and displayed simultaneously on a display in order to save display space and more quickly review the pages. Usually, pages may be easily scaled to about one quarter size and still convey almost all of the information they were intended to convey.

- 30 [0006] Thumbnails are very small-scale representations of a page or image. Thumbnails are useful for providing observers with an indication of the contents of a page or image. Conventionally, thumbnails are used to display many pages

or images at once. The observer is then able to receive some information about each page or image represented by a thumbnail. The observer may then select pages or images from the thumbnails and view the full size page or image represented by the thumbnail. In this way, the observer may easily select pages or images for viewing without being required to view each full size image or page.

[0007] While thumbnails are useful for providing an indication of the contents of a page or image, thumbnails are usually too small to effectively convey all of the information that a full sized page is able to convey. Therefore, a presenter may find thumbnails to be useful while making a presentation. However, the presenter may also want to see the current page of the presentation at full size. The conventional means for displaying multiple pages simultaneously do not enable displaying of both thumbnails and a full size page simultaneously on a single display.

#### SUMMARY OF THE INVENTION

[0008] According to principles of the present invention, an interactive delivery interface provides a user with a multiple page display. A display job is processed into ordered pages. One of the multiple pages is selected for display. At least one sequence of pages adjacent the selected page is chosen. Each page of each chosen sequence of pages is scaled to a size smaller than a size of the selected page. The selected page and each chosen sequence of scaled pages are displayed together on the display.

[0009] According to further principles of the present invention, the ordered pages of the display job are processed into sequential pages.

[0010] According to further principles of the present invention, examples of displaying the selected page and each chosen sequence of scaled pages include exhibiting the selected page and each chosen sequence of scaled pages on a display screen and printing the selected page and each chosen sequence of scaled pages onto print media.

[0011] According to further principles of the present invention, the selected

page is scaled to fit the display and each page in each chosen sequence of pages is scaled to a size smaller than a size of the scaled selected page.

### DESCRIPTION OF THE DRAWINGS

- 5 [0012] Figure 1 is a block diagram representing one embodiment of the system of the present invention for displaying multiple pages of a display job on a display.
- [0013] Figure 2 is a flow chart illustrating one embodiment of the method of the present invention for displaying multiple pages of a display job on a display.
- 10 [0014] Figure 3 is a representation of examples of multiple page displays for the present invention.

### DETAILED DESCRIPTION OF THE INVENTION

- 15 [0015] Figure 1 shows, in block diagram form, a system for displaying a multiple page display job on a display. The system includes computer 2 and display 4.

- [0016] Computer 2 is any device or system, such as a specific or general purpose computer, that includes a means, such as a processor, configured to process executable code. Computer 2 includes an arranger 6, a selector 8, an indicator 10, a sequence page scaler 12, a display page scaler 14, and a program storage system 16.
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- [0017] Arranger 6 is any combination of hardware and executable code configured to process the display job into ordered pages. Arranger 6 includes a sequencer 18. Sequencer 18 is any combination of hardware and executable code configured to process the displayed job into sequential pages.
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- [0018] Selector 8 is any combination of hardware and executable code configured to select one of the multiple pages for display. Indicator 10 is any combination of hardware and executable code configured to choose at least one sequence of pages adjacent the selected page. Sequence page scaler 12 is any combination of hardware and executable code configured to scale each page in each chosen sequence of pages to a size smaller than a size of the selected
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